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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-25-02**	**Date: 31-03-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.	
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.	
Customer Reference	:	EE/DD/WO/138/16-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-03-17	
Sample ID No	:	2017-03-25-02/01(a)	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation	
Date of test	:	27-03-17	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	150	150	3.0	97.0	95-100
3	10 mm	2879	3029	60.6	39.4	25-55
4	4.75 mm	1914	4943	98.9	1.1	0-5
5	Pan	57	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-25-02 Date: 31-03-2017

Sample ID No : 2017-03-25-02/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	8.6	–
2	Elongation Index(%)	11.6	–
3	Specific Gravity	2.56	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.25	–
7	Ten percent fine value(KN)	185.2	–
8	Aggregate crushing Value(%)	22.9	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	24.1	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL PRO Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signature
Quality Manager

AE-B
ಸಹಾಯಕ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-25-02** **Date: 31-03-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.
Customer's Reference	:	EE/DD/WO/138/16-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-03-17
Sample ID No	:	2017-03-25-02/01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	27-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	188	188	3.76	96.2	95-100
3	20 mm	1689	1877	37.54	62.5	30-70
4	10 mm	2034	3911	78.22	21.8	10-35
5	4.75 mm	986	4897	97.94	2.1	0-5
6	Pan	103	5000	100	0	---

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TEST RESULTS OF STEEL

Lab ID	:	CP-2017-03-25-02	Date: 31-03-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.	
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.	
Customer's Reference	:	EE/DD/WO/138/16-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-03-17	
Sample ID No	:	2017-03-25-02/03	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	17/12/2016	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.392	543	631	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signature
Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25-04-17

Lab ID	:	CP-2017-04-03-02
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.
Customer's Reference	:	EE/DD/WO/138/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-02/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/03/2017	25/04/2017	151.09 X 150.53 X 148.83	22744	8.118	541.3	23.8	24.0
2	Drain Concrete	M20	28/03/2017	25/04/2017	150.33 X 150.72 X 150.29	22658	8.173	552.8	24.4	
3	Drain Concrete	M20	28/03/2017	25/04/2017	150.62 X 150.81 X 149.49	22715	8.135	542.9	23.9	

Note:
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Prepared by
Harsitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 31-03-17

Lab ID	:	CP-2017-03-25-02
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.
Customer's Reference	:	EE/DD/WO/138/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-17
Sample ID No	:	2017-03-25-02/02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	25-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	63	63	6.3	93.7	90-100	90-100	90-100	95-100
3	2.36 mm	108	171	17.1	82.9	60-95	75-100	85-100	95-100
4	1.18 mm	92	263	26.3	73.7	30-70	55-90	75-100	90-100
5	600 micron	239	502	50.2	49.8	15-34	35-59	60-79	80-100
6	300 micron	336	838	83.8	16.2	5-20	8-30	12-40	15-50
7	150 micron	115	953	95.3	4.7	0-10	0-10	0-10	0-15
8	Pan	47	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: T-4958

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-02-28-03
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
		Date: 29-03-2017
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of RCC drains 22nd Cross near pipeline road BHEL Mini Colony Mallasandra in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri. Bharath Kumar V, # 530, Kaliyamma Temple Road, Kuvempu Nagara, 2nd Stage, Jalahalli East, Bengaluru.
Customer's Reference	:	EE/DD/WO/138/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-17
Sample ID No	:	2017-02-28-03/01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-03-2017 to 29-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.83	–
2	Finess by Air permeablity method (m^2/kg, Min)	282.8	225m^2/kg, Min
3	Density (gm/cc)	3.26	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	240 minutes	Not less than 30 minutes

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೆ.ಎಂ. ರಸ್ತೆ, ರಮಣಶ್ರೀನಗರ, ಬೆಂಗಳೂರು

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